FIG. 1

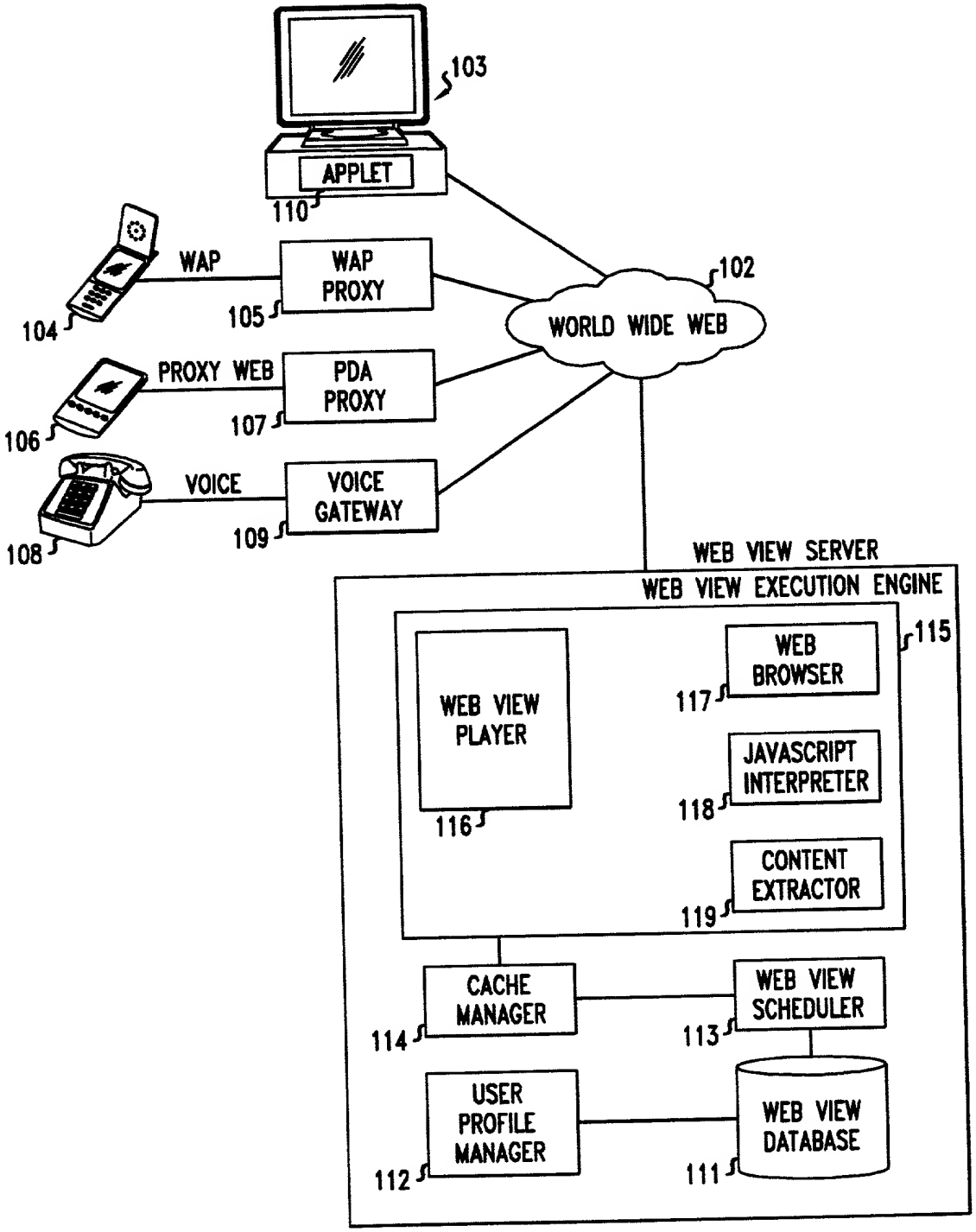

103
APPLET
110
WAP
WAP PROXY
105
104
102
WORLD WIDE WEB
PROXY WEB
PDA PROXY
107
106
VOICE
VOICE GATEWAY
109
108
WEB VIEW SERVER
WEB VIEW EXECUTION ENGINE
115
WEB VIEW PLAYER
116
WEB BROWSER
117
JAVASCRIPT INTERPRETER
118
CONTENT EXTRACTOR
119
CACHE MANAGER
114
WEB VIEW SCHEDULER
113
USER PROFILE MANAGER
112
WEB VIEW DATABASE
111

FIG. 2

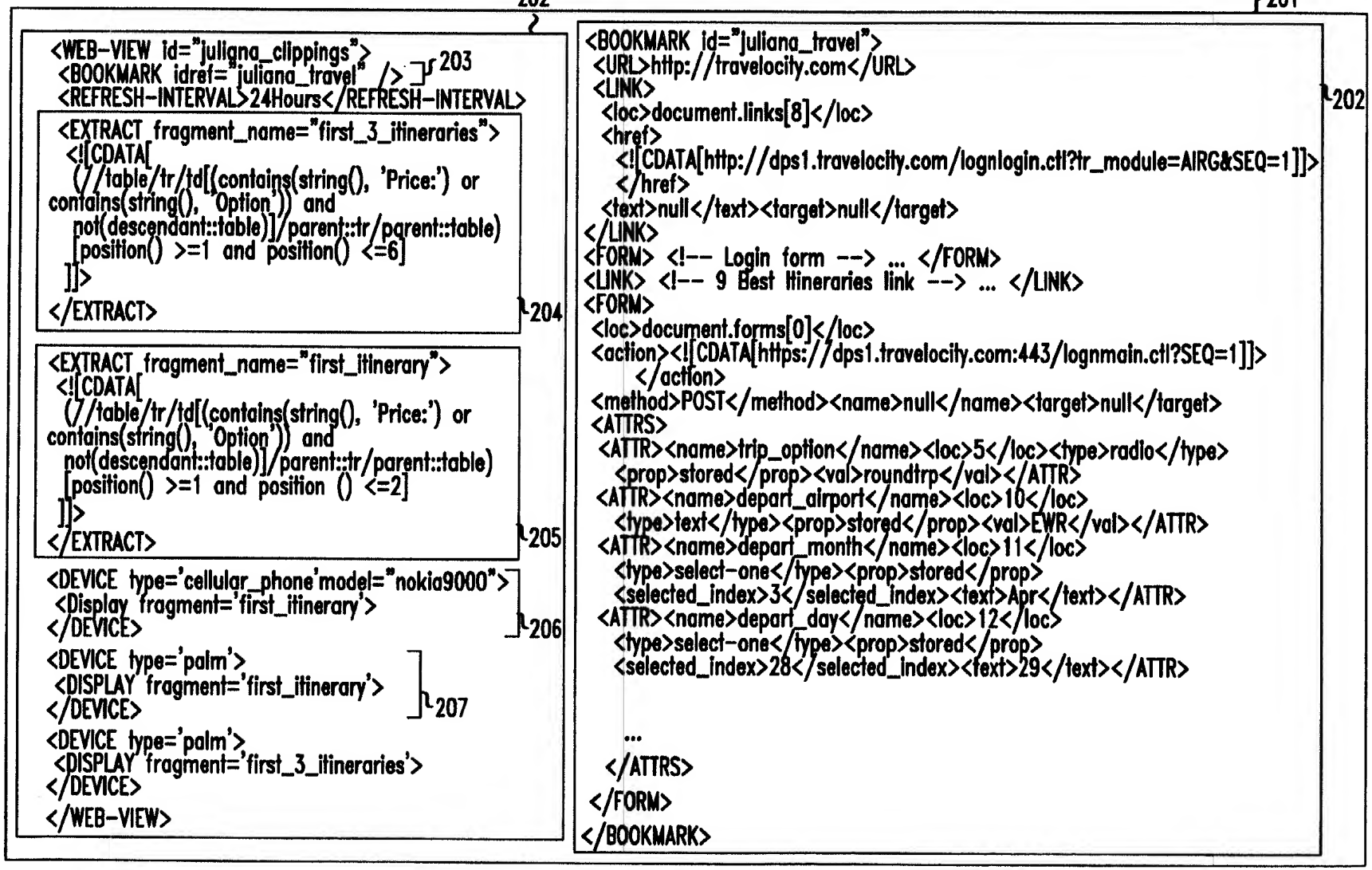
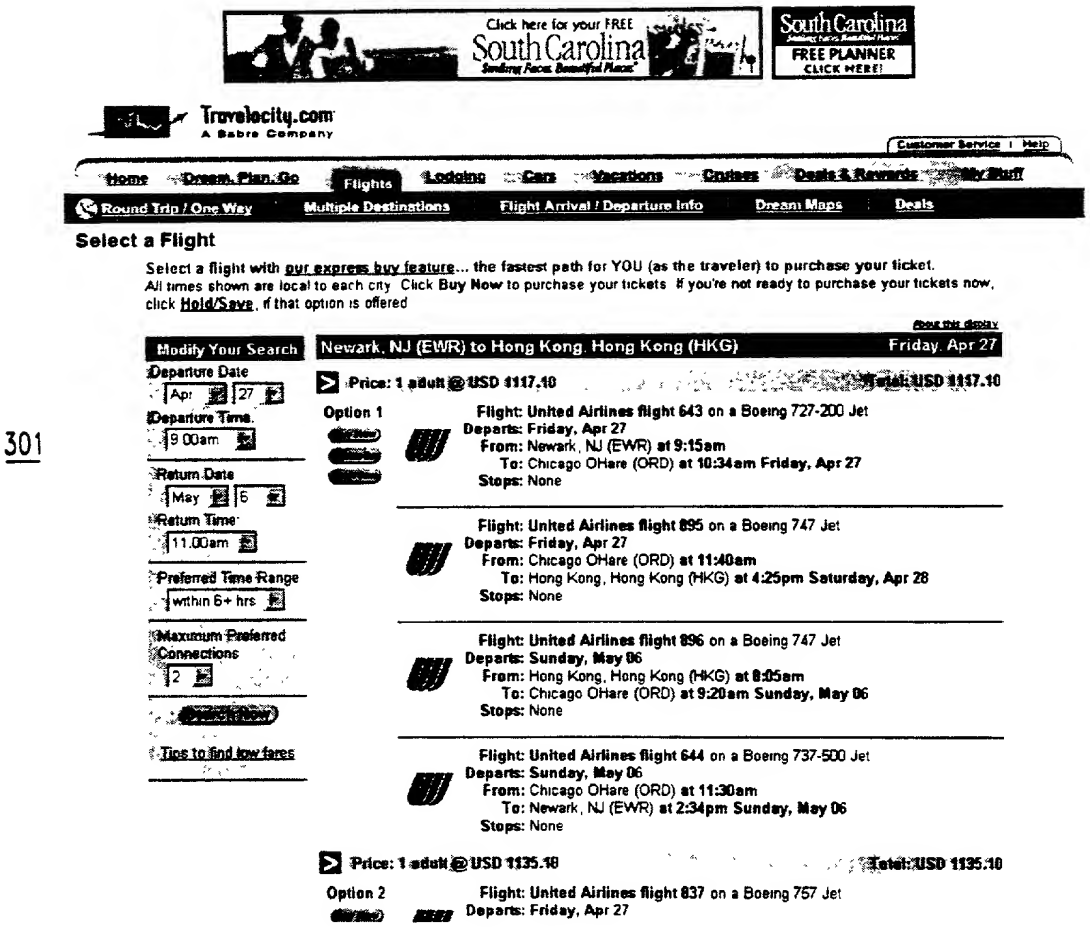
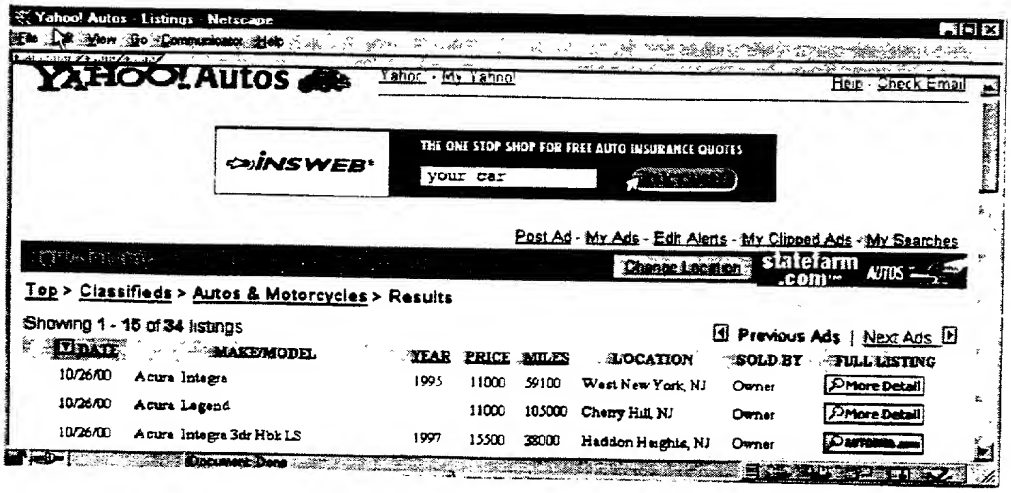

202
201
<WEB-VIEW id="juliana_clippings">
<BOOKMARK idref="juliana_travel" /> 203
<REFRESH-INTERVAL>24Hours</REFRESH-INTERVAL>
<EXTRACT fragment_name="first_3_itineraries">
<![CDATA[
(//table/tr/td[(contains(string(), 'Price:') or contains(string(), 'Option')) and not(descendant::table)]/parent::tr/parent::table)[position() >=1 and position() <=6]
]]>
</EXTRACT> 204
<EXTRACT fragment_name="first_itinerary">
<![CDATA[
(//table/tr/td[(contains(string(), 'Price:') or contains(string(), 'Option')) and not(descendant::table)]/parent::tr/parent::table)[position() >=1 and position () <=2]
]]>
</EXTRACT> 205
<DEVICE type='cellular_phone' model="nokia9000">
<Display fragment='first_itinerary'>
</DEVICE> 206
<DEVICE type='palm'>
<DISPLAY fragment='first_itinerary'>
</DEVICE> 207
<DEVICE type='palm'>
<DISPLAY fragment='first_3_itineraries'>
</DEVICE>
</WEB-VIEW>
<BOOKMARK id="juliana_travel">
<URL>http://travelocity.com</URL>
<LINK>
<loc>document.links[8]</loc>
<href>
<![CDATA[http://dps1.travelocity.com/lognlogin.ctl?tr_module=AIRG&SEQ=1]]>
</href>
<text>null</text><target>null</target>
</LINK>
<FORM> <!-- Login form --> ... </FORM>
<LINK> <!-- 9 Best Itineraries link --> ... </LINK>
<FORM>
<loc>document.forms[0]</loc>
<action><![CDATA[https://dps1.travelocity.com:443/lognmain.ctl?SEQ=1]]>
</action>
<method>POST</method><name>null</name><target>null</target>
<ATTRS>
<ATTR><name>trip_option</name><loc>5</loc><type>radio</type>
<prop>stored</prop><val>roundtrp</val></ATTR>
<ATTR><name>depart_airport</name><loc>10</loc>
<type>text</type><prop>stored</prop><val>EWR</val></ATTR>
<ATTR><name>depart_month</name><loc>11</loc>
<type>select-one</type><prop>stored</prop>
<selected_index>3</selected_index><text>Apr</text></ATTR>
<ATTR><name>depart_day</name><loc>12</loc>
<type>select-one</type><prop>stored</prop>
<selected_index>28</selected_index><text>29</text></ATTR>
...
</ATTRS>
</FORM>
</BOOKMARK>
202

FIG. 3



301

FIG. 4



401

FIG. 5

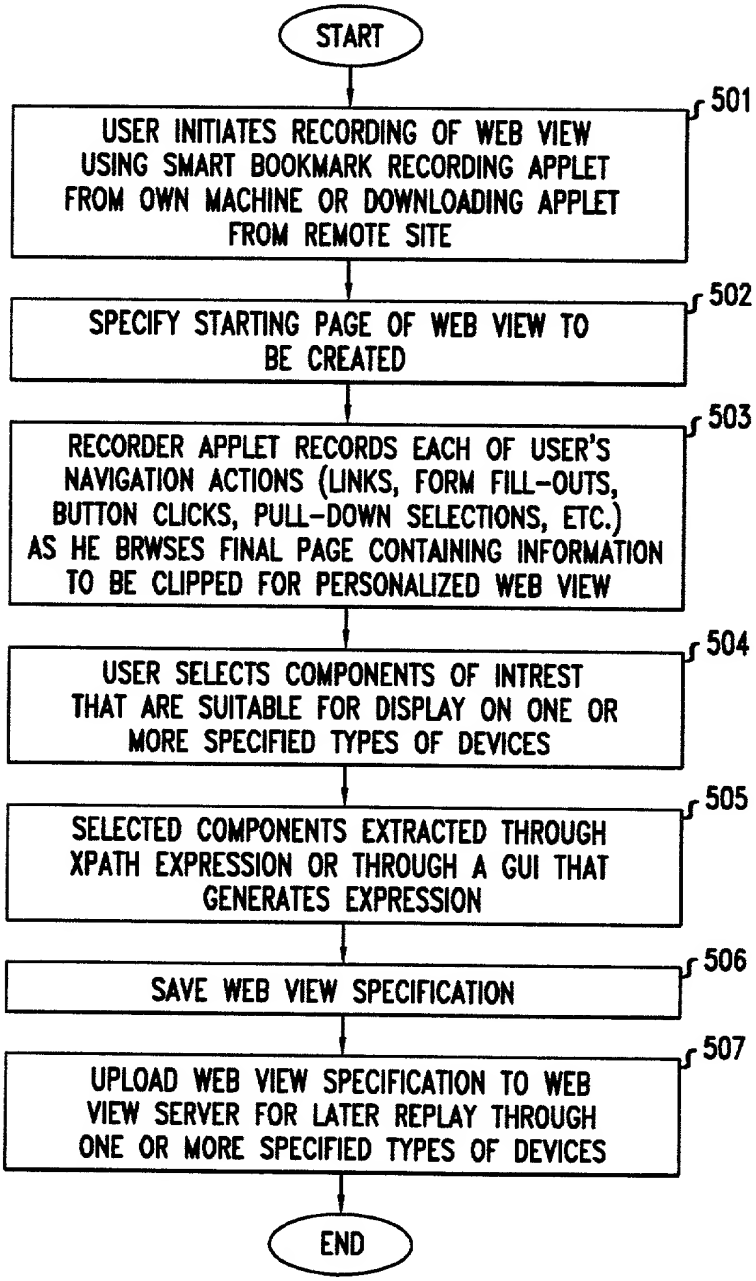


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FIG. 6

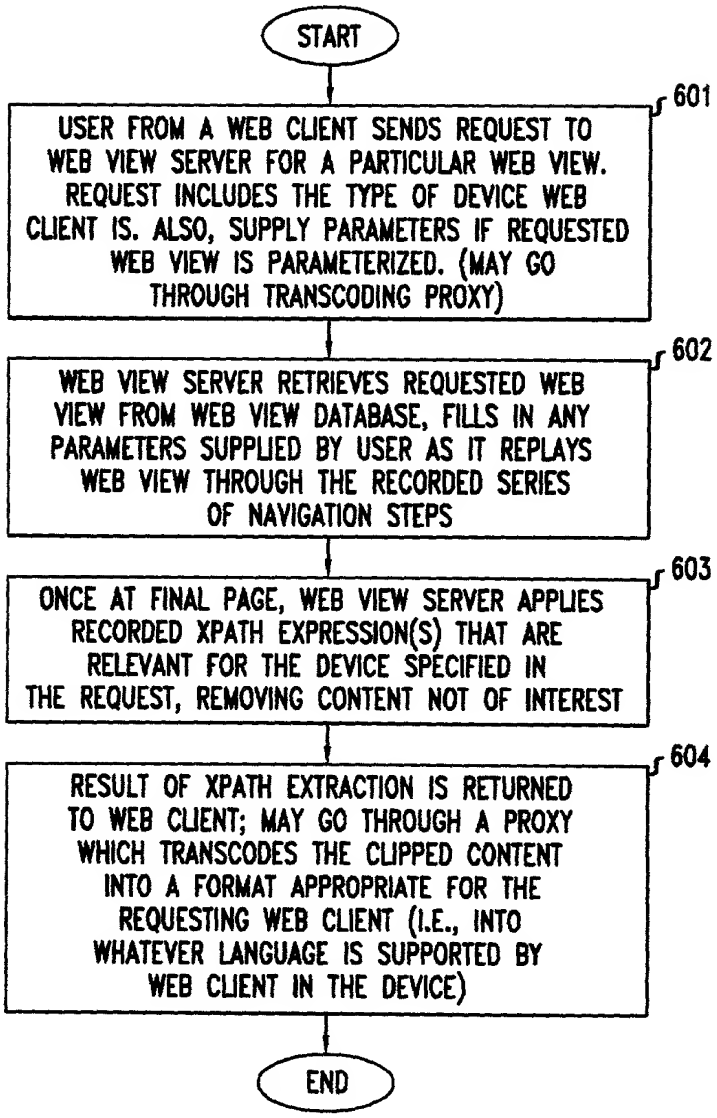

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FIG. 7

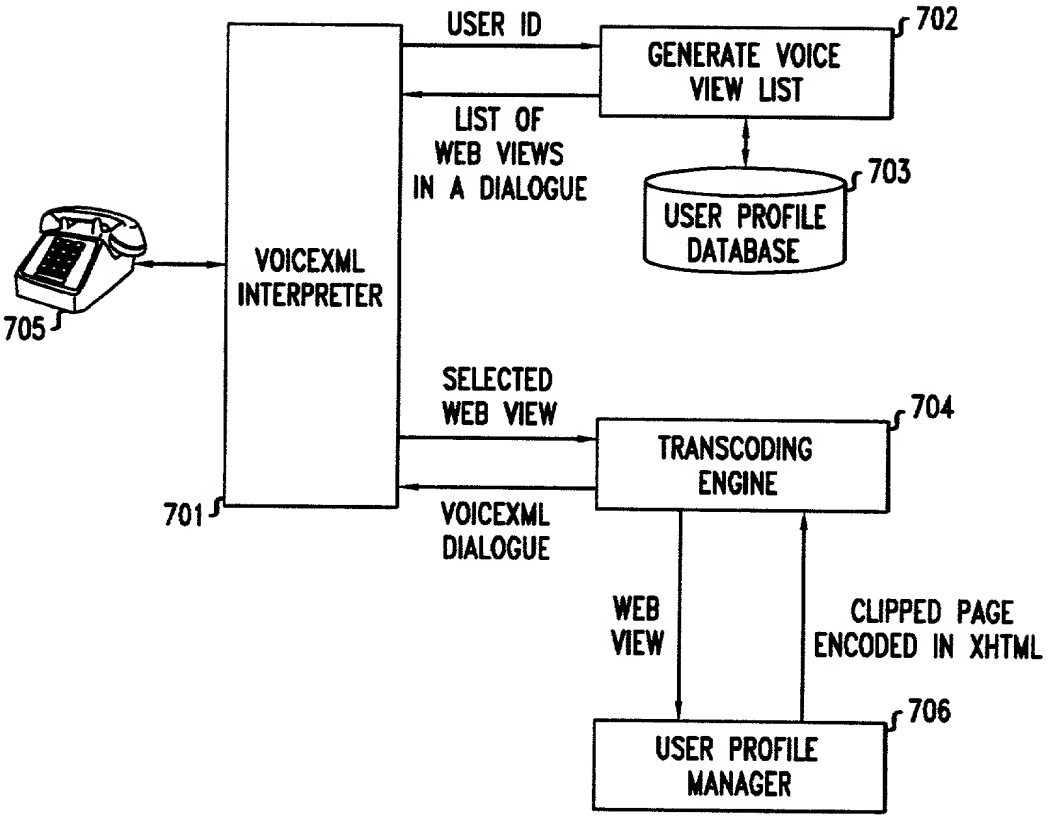

USER ID
GENERATE VOICE VIEW LIST
702
LIST OF WEB VIEWS IN A DIALOGUE
703
USER PROFILE DATABASE
VOICEXML INTERPRETER
705
701
SELECTED WEB VIEW
704
TRANSCODING ENGINE
VOICEXML DIALOGUE
WEB VIEW
CLIPPED PAGE ENCODED IN XHTML
706
USER PROFILE MANAGER

FIG. 8

```
<?xml version="1.0"?>

<vxml version="1.0" caching="safe">
<form>
    <field name="row1">
        <grammar type="application/x-jsgf">
                next{next} verb+|+ skip{skip} </grammar
        <prompt bargein="true">
                make/model: Acura Integra
                <break size="medium"/> year:1995
                <break size="medium"/> price:11000
                <break size="medium"/> miles:59100
        </prompt>
        <catch event="nomatch noinput">
                <assign name="row1" expr="'next'"/>
                <goto nextitem="row2"/>
        </catch>
        <filled>
                <if cond="row1 == 'next'"/>
                        <goto nextitem="row2"/>
                <else/>
                        <goto next="#end_table"/></if>
        </filled>
    </field>
    ...
<form id="end_table">
    <block><goto next=
"http://www.voiceviews.com/GenerateVoiceViewList.
cgi?userid=81234567"/>
    </block>
</form>
</vxml>
```

FIG. 9

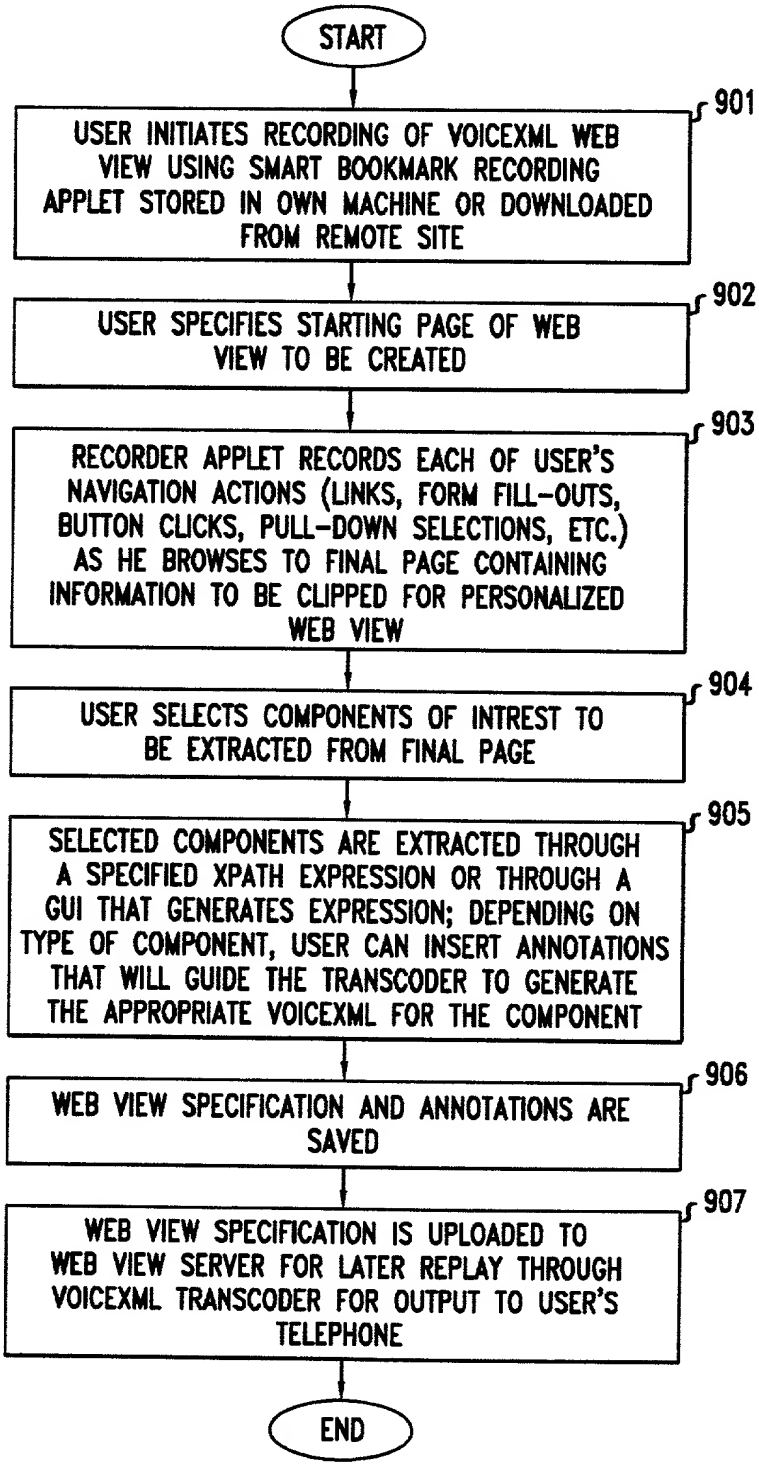
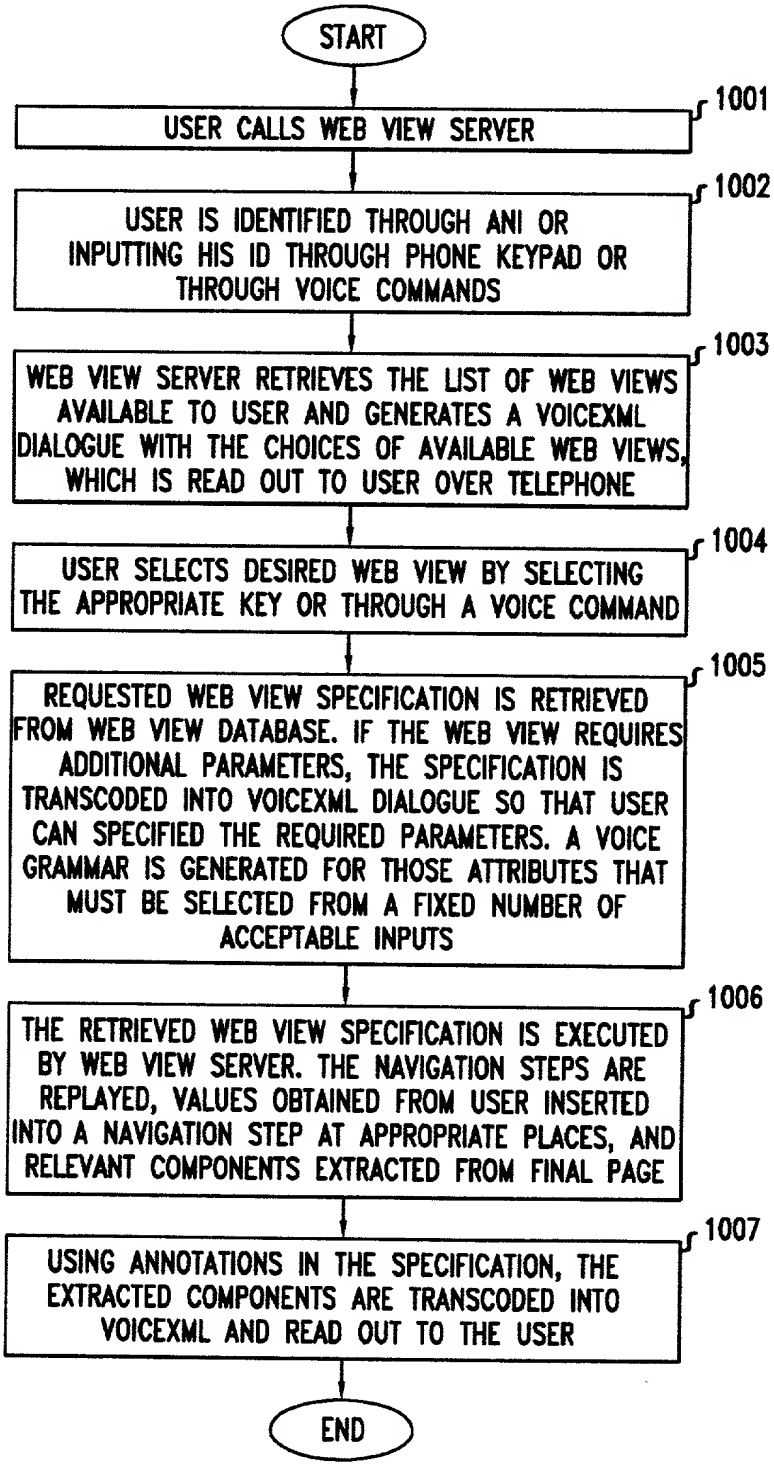

START
USER INITIATES RECORDING OF VOICEXML WEB VIEW USING SMART BOOKMARK RECORDING APPLET STORED IN OWN MACHINE OR DOWNLOADED FROM REMOTE SITE
901
USER SPECIFIES STARTING PAGE OF WEB VIEW TO BE CREATED
902
RECORDER APPLET RECORDS EACH OF USER'S NAVIGATION ACTIONS (LINKS, FORM FILL-OUTS, BUTTON CLICKS, PULL-DOWN SELECTIONS, ETC.) AS HE BROWSES TO FINAL PAGE CONTAINING INFORMATION TO BE CLIPPED FOR PERSONALIZED WEB VIEW
903
USER SELECTS COMPONENTS OF INTREST TO BE EXTRACTED FROM FINAL PAGE
904
SELECTED COMPONENTS ARE EXTRACTED THROUGH A SPECIFIED XPATH EXPRESSION OR THROUGH A GUI THAT GENERATES EXPRESSION; DEPENDING ON TYPE OF COMPONENT, USER CAN INSERT ANNOTATIONS THAT WILL GUIDE THE TRANSCODER TO GENERATE THE APPROPRIATE VOICEXML FOR THE COMPONENT
905
WEB VIEW SPECIFICATION AND ANNOTATIONS ARE SAVED
906
WEB VIEW SPECIFICATION IS UPLOADED TO WEB VIEW SERVER FOR LATER REPLAY THROUGH VOICEXML TRANSCODER FOR OUTPUT TO USER'S TELEPHONE
907
END

FIG. 10



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